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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNI	EY DOCKET NO.	CONFIRMATION NO.
10/049,586	02/12/2002	Регту J. Blackshear	140	14.0349U2	9700
75	90 07/27/2004			EXAM	INER
Mary L Miller			<del></del>	SISSON, BR	ADLEY L
Needle & Roser			A	RT UNIT	PAPER NUMBER
The Candler Building Suite 1200 127 Peachtree Street NE			450-4	1634	THE DATE OF THE PARTY OF THE PA
Atlanta, GA 3	0303-1811		DATE MA	AILED: 07/27/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Comme	10/049,586	BLACKSHEAR ET AL.
Office Action Summary	Examiner	Art Unit
	Bradley L. Sisson	1634
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 17 M	larch 2004.	
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowa closed in accordance with the practice under <i>I</i>	•	
Disposition of Claims		
4) ⊠ Claim(s) 39-63 is/are pending in the application 4a) Of the above claim(s) 39-52,62 and 63 is/a 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 53-61 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	re withdrawn from consideration.	
Application Papers		
9)⊠ The specification is objected to by the Examine	er.	•
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	
Priority under 35 U.S.C. § 119		
12) ☒ Acknowledgment is made of a claim for foreign a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☒ Copies of the certified copies of the prio application from the International Burear * See the attached detailed Office action for a list	s have been received. Is have been received in Application Inity documents have been receive Inity (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	•	
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ate Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	

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#### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's election with traverse of Group IV, claims 53-61, in the reply filed on 17 March 2004 is acknowledged. The traversal is on the ground(s) that the claims are not simply linked through TTP, but rather, through the discovery that TTP causes a degradation of mRNA via binding to the ARE. This is not found persuasive because the claims are not limited to where TTP must demonstrate such a property or that it even exist. Accordingly, the claims are not so linked by a special technical feature such that they have unity of invention.
- 2. The requirement is still deemed proper and is therefore made FINAL.
- 3. Claims 39-52, 62, and 63 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 17 March 2004.

### Specification

- 4. The disclosure is objected to because of the following informalities: The specification has been found to contain representations of oligonucleotide sequences that are not accompanied with the requisite SEQ ID NO. See, for example, page 35, 62, 65, and 90.
- 5. Appropriate correction is required.

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- 6. The use of the trademark NONIDET P40 (aka, NP40) and TWEEN 20 have been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.
- 7. Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner, which might adversely affect their validity as trademarks.
- 8. The specification is objected to as documents have been improperly incorporated by reference. In particular, the specification states:

## Incorporation by Reference

Throughout this application, various publications, patents, and/or patent applications are referenced in order to more fully describe the state of the art to which this invention pertains. The disclosures of these publications, patents, and/or patent applications are herein incorporated by reference in their entireties to the same extent as if each independent publication, patent, and/or patent application was specifically and individually indicated to be incorporated by reference.

Such omnibus language fails to specify what specific information applicant seeks to incorporate by reference and similarly fails to teach with detailed particularity just where that specific information is to be found in each of the cited documents. As set forth in *Advanced Display*Systems Inc. v. Kent State University (Fed. Cir. 2000) 54 USPQ2d at 1679:

Incorporation by reference provides a method for integrating material from various documents into a host document—a patent or printed publication in an anticipation determination—by citing such material in a manner that makes it clear that the material is effectively part of the host document as if it were explicitly contained therein. See General Elec. Co. v. Brenner, 407 F.2d 1258, 1261-62, 159 USQP 335, 337 (D.C. Cir. 1968); In re Lund, 376 F.2d 982, 989, 153 USPQ 625, 631 (CCPA 1967). To incorporate material by reference, the host document must identify with detailed particularity what specific material it incorporates and clearly indicate where that material is found in the various documents. See In re Seversky, 474 F.2d 671, 674,

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177 USPQ 144, 146 (CCPA 1973) (providing that incorporation by reference requires a statement "clearly identifying the subject matter which is incorporated and where it is to be found"); In re Saunders, 444 F.2d 599, 602-02, 170 USPQ 213, 216-17 (CPA 1971) (reasoning that a rejection or anticipation is appropriate only if one reference "expressly incorporates a particular part" of another reference); National Latex Prods. Co. v. Sun Rubber Co., 274 F.2d 224, 230, 123 USPQ 279, 283 (6th Cir. 1959) (requiring a specific reference to material in an earlier application in order to have that material considered a part of a later application); cf. Lund, 376 F.2d at 989, 13 USPQ at 631 (holding that a one sentence reference to an abandoned application is not sufficient to incorporate from the abandoned application into a new application). (Emphasis added.)

Accordingly, the cited documents are not considered to have been properly incorporated by reference and as such, have not been considered with any effect towards their fulfilling, either in part or in whole, the enablement, written description, or best mode requirements of 35 USC 112, first paragraph.

9. The instant application was filed with claims numbered 1-68, of which there were two claims numbered 43. Beginning with the second of said claim 43, said claims were renumbered claims 44-69. The dependency of the claims, including that of claims 53-61, which were elected by applicant for examination on the merits, has not been renumbered. Applicant is urged to consider the appropriate dependency of the claims and to amend the claims accordingly.

# Information Disclosure Statement

10. The listing of references in the specification (e.g., pages 44-50, 56-60, 80-87, and 104-106) is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

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# Claim Rejections - 35 USC § 112

- 11. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 12. Claims 53-61 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 13. Claims 53-61 are indefinite in that the full name of the abbreviations TTP, ARE, TZF, TTP-like, TNF-α, GM-CSF are not used with the first occurrence of the abbreviation. Applicant is urged to amend the claims using the following format for the first instance the abbreviation is to be used in a series of claims; e.g., --tristetraprolin (TTP)--.
- 14. Claims 54-61 are indefinite in that they all depend from a non-elected claim (claim 52).

  Applicant is urged to consider having the claims depend from claim 53.
- 15. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 16. Claims 53-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Attention is directed to the decision in *University of Rochester v. G.D. Searle & Co.* 68 USPQ2D 1424 (Fed. Cir. 2004) at 1428:

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To satisfy the written-description requirement, the specification must describe every element of the claimed invention in sufficient detail so that one of ordinary skill in the art would recognize that the inventor possessed the claimed invention at the time of filing. Vas-Cath, 935 F.3d at 1563; see also Lockwood v. American Airlines, Inc., 107 F.3d 1565, 1572 [41 USPQ2d 1961] (Fed. Cir. 1997) (patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention"); In re Gosteli, 872 F.2d 1008, 1012 [10 USPQ2d 1614] (Fed. Cir. 1989) ("the description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed"). Thus, an applicant complies with the written-description requirement "by describing the invention, with all its claimed limitations, not that which makes it obvious," and by using "such descriptive means as words, structures, figures, diagrams, formulas, etc., that set forth the claimed invention." Lockwood, 107 F.3d at 1572.

For convenience, claim 53, the only independent claim under consideration on the merits, is reproduced below.

53. A method of identifying a compound that modulates the activity of TTP or a TTP-like polypeptide, comprising:

- a) contacting a sample with the compound, and
- b) detecting or measuring the binding between an ARE and a TZF polypeptide consisting essentially of a TTP zinc finger domain or a polypeptide comprising a TTP-like zinc finger domain in the sample, whereby an increase or decrease in the binding between the ARE and the polypeptide, relative to the binding between the ARE and the polypeptide in the sample not contacted with the compound, identifies a compound that modulates the activity of TTP or a TTP-like polypeptide.
- 17. A review of the disclosure finds the following examples:
  - Example 1, pages 33-50, "TTP is a Regulator of GM-CSF mRNA Deadenylation and Stability;"
  - Example 2, pages 50-60, "Inhibitor of Macrophage TNFα Production by TTP;"
  - Example 3, pages 61-87, "Evidence that TTP Binds to AU-Rich Elements and Promotes the Deadenylation and Destabilization of TNFα mRNA;" and

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• Example 4, pages 87-106, "The tandem zinc finger domain from TTP and TTP-related proteins binds to AU-rich elements and destabilizes mRNA."

As is plainly evident, none of the examples is drawn to the claimed method. A review of the disclosure fails to locate an adequate written description of the claimed invention. While applicant has sought to incorporate numerous documents, said documents have been improperly incorporated by reference and as such cannot be relied upon for satisfaction of the written description requirement of 35 USC 112, first paragraph. Assuming *arguendo*, that the documents could e relied upon, a point that the Office does not concede, the specification still does not set forth in sufficient detail, e.g., by way of exemplification, how the claimed invention is to be practiced. It appears that applicant is attempting to satisfy the written description requirement of 35 USC 112, first paragraph, through obviousness. Obviousness, however, cannot be relied upon for satisfaction of the written description requirement. In support of this position, attention is directed to the decision in *University of California v. Eli Lilly and Co.* (Fed. Cir. 1997) 43 USPQ2d at 1405, citing *Lockwood v. American Airlines Inc.* (Fed. Cir. 1997) 41 USPQ2d at 1966:

Recently, we held that a description which renders obvious a claimed invention is not sufficient to satisfy the written description requirement of that invention.

- 18. For the above reasons, and in the absence of convincing evidence to the contrary, claims 53-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.
- 19. Claims 53-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in

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which it is most nearly connected, to make and/or use the invention. As set forth in Enzo

Biochem Inc., v. Calgene, Inc. (CAFC, 1999) 52 USPO2d at 1135, bridging to 1136:

To be enabling, the specification of a patent must teach those skilled in the art how to make and use the full scope of the claimed invention without 'undue experimentation.' " Genentech, Inc. v. Novo Nordisk, A/S, 108 F.3d 1361, 1365, 42 USPQ2d 1001, 1004 (Fed. Cir. 1997) (quoting In re Wright, 999 F.2d 1557, 1561, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)). Whether claims are sufficiently enabled by a disclosure in a specification is determined as of the date that the patent application was first filed, see Hybritech, Inc. v. Monoclonal Antibodies, Inc., 802 F.2d 1367, 1384, 231 USPQ 81, 94 (Fed. Cir. 1986).... We have held that a patent specification complies with the statute even if a "reasonable" amount of routine experimentation is required in order to practice a claimed invention, but that such experimentation must not be "undue." See, e.g., Wands, 858 F.2d at 736-37, 8 USPQ2d at 1404 ("Enablement is not precluded by the necessity for some experimentation . . . However, experimentation needed to practice the invention must not be undue experimentation. The key word is 'undue,' not 'experimentation.' ") (footnotes, citations, and internal quotation marks omitted). In In re Wands, we set forth a number of factors which a court may consider in determining whether a disclosure would require undue experimentation. These factors were set forth as follows: (1) the quantity of experimentation necessary, (2) the amount of direction or guidance presented, (3) the presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8) the breadth of the claims. Id. at 737, 8 USPQ2d at 1404. We have also noted that all of the factors need not be reviewed when determining whether a disclosure is enabling. See Amgen, Inc. v. Chugai Pharm. Co., Ltd., 927 F.2d 1200, 1213, 18 USPQ2d 1016, 1027 (Fed. Cir. 1991) (noting that the Wands factors "are illustrative, not mandatory. What is relevant depends on the facts.").

20. It is well settled that one cannot enable that which they do not yet possess. As evidenced above, the specification does not reasonably support the position that applicant was in possession of the claimed invention. Further, the specification fails to teach the essential method steps, starting materials, and reaction conditions required to practice the full scope of the invention, for as shown above, none of the examples are directed to the claimed method and the cited documents have not been properly incorporated by reference. The situation at hand is analogous

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to that in Genentech v. Novo Nordisk A/S 42 USPQ2d 1001. As set forth in the decision of the

Court:

"'[T]o be enabling, the specification of a patent must teach those skilled in the art how to make and use the full scope of the claimed invention without undue experimentation.' In re Wright 999 F.2d 1557, 1561, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993); see also Amgen Inc. v. Chugai Pharms. Co., 927 F. 2d 1200, 1212, 18 USPQ2d 1016, 1026 (Fed Cir. 1991); In re Fisher, 427 F. 2d 833, 166 USPQ 18, 24 (CCPA 1970) ('[T]he scope of the claims must bear a reasonable correlation to the scope of enablement provided by the specification to persons of ordinary skill in the art.').

\*\*\*\*

"Patent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable. See Brenner v. Manson, 383 U.S. 519, 536, 148 USPQ 689, 696 (1966) (starting, in context of the utility requirement, that 'a patent is not a hunting license. It is not a reward for the search, but compensation for its successful conclusion.') Tossing out the mere germ of an idea does not constitute enabling disclosure. While every aspect of a generic claim certainly need not have been carried out by an inventor, or exemplified in the specification, reasonable detail must be provided in order to enable members of the public to understand and carry out the invention. "It is true... that a specification need not disclose what is well known in the art. See, e.g., Hybritech, Inc. v. Monoclonal Antibodies, Inc., 802 F.2d 1367, 1385, 231 USPO 81, 94 (Fed. Cir. 1986). However, that general, oft-repeated statement is merely a rule of supplementation, not a substitute for a basic enabling disclosure. It means that the omission of minor details does not cause a specification to fail to meet the enablement requirement. However, when there is no disclosure of any specific starting material or any of the conditions under which a process can be carried out, undue experimentation is required; there is a failure to meet the enablement requirement that cannot be rectified by asserting that all the disclosure related to the process is within the skill of the art. It is the specification, not the knowledge of one skill in the art, that must supply the novel aspects of an invention in order to constitute adequate enablement. This specification provides only a starting point, a direction for further research. (Emphasis added)

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For the above reasons, and in the absence of convincing evidence to the contrary claims 53-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement.

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### Conclusion

- 21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley L. Sisson whose telephone number is (571) 272-0751. The examiner can normally be reached on 6:30 a.m. to 5 p.m., Monday through Thursday.
- 22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 23. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bradley L. Sisson Primary Examiner Art Unit 1634

BLS 24 July 2004





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Form PTO TANK					ATTORNEY DOCKET NO. 14014.0349U2 SERIAL NO. 10/049,586			. 10/049,586		
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BOX	A	2	Akashi et al. Role of AUUUA sequences in stabilization of granulocyte-macrophage colony-stimulating factor RNA in stimulated cells. <i>Blood</i> 78:2005-2012 (1991)					actor RNA in		
ſ	A:	3	Barnard et al. <i>Nucl. Acids</i> Res. 21:3580 (1993)							
	A	4	Beelman et al. Degradation of mRNA in eukaryotes. Cell 81:179 (1995)							
	A!	5	Bohjanen et al. AU RNA-binding factors differ in their binding specificities and affinities. J. Biol. Chem. 267:6302-6309 (1992)							
	A	6	Bohjanen et al. An inducible cytoplasmic factor (AU-B) binds selectively to AUUUA multimers in the 3' untranslated region of lymphokine mRNA. <i>Mol. Cell. Biol.</i> 11:3288-3295							
	A	7	Caput et al. Identification of a common nucleotide sequence in the 3'-untranslated region of mRNA molecules specifying inflammatory mediators. <i>Proc. Natl. Acad. Sci. USA</i> 83:1670-1674 (1986)							
	A	8	Carballo et al. Bone marrow transplantation reproduces the tristetraprolin-deficiency syndrome in recombination activating gene-2(-/-) mice. J. Clin. Invest. 100(5):986-995 (1997)							
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	A	10	Carballo et al. Tris Hematol. 28(No. 7		a regulator of granulocyte (July 2000)	macrophage colon	y-stimulating	factor mRNA s	stability. Exper.	
	A	.11	Carballo et al. Feedback inhibition of macrophage tumor necrosis factor-alpha (TNFa) production by tristetraprolin (TTP). Science 281(5379):1001-1005 (August 14, 1998)							
	A <sup>'</sup>	12	Chen et al. AU-rich elements: characterization and importance in mRNA degradation. <i>Trends Biochem. Sci.</i> 20:465–470 (1995)							
	A	13	Chen et al. mRNA decay mediated by two distinct AU-rich elements from c-fos and granulocyte-macrophage colony- stimulating factor transcripts: different deadenylation kinetics and uncoupling from translation. <i>Mol. Cell. Biol.</i> 15:5777 (1995)							
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27	TRADE	<b>Å</b> 15	De et al. Identification of four CCCH zinc finger proteins in Xenopus, including a novel vertebrate protein with four zinc fingers and severely restricted expression. Gene 228(1-2):133-145 (March 4, 1999)
١	1	A16	DuBois et al. Growth factor-inducible nuclear protein with a novel cystelne/histidine repetitive sequence. J. Biol. Chem. 265(31):19185-19191 (1990)
		A17	Han et al. Interactive effects of the tumor necrosis factor promoter and 3' untranslated regions. J. Immunol. 146:1843 (1991)
		A18	Kim et al. Binding of a protein to an AU-rich domain of tumor necrosis factor a mRNA as a 35 kDa complex and its regulation in primary rat astrocytes. <i>Biochem. J.</i> 316:455-460 (1996)
		A19	Lai et al. Interactions of CCCH zinc finger proteins with mRNA. Binding of tristetraprolin-related zinc finger proteins to Aurich elements and destabilization of mRNA. J. Biol. Chem. 275(23):17827:17837 (June 9, 2000)
		A20	Lai et al. Evidence that tristetraprolin binds to AU-rich elements and promotes the deadenylation and destabilization of tumor necrosis factor alpha mRNA. <i>Mol. Cell. Biol.</i> 19(6):4311-4323 (June 1999)
		A21	Ma et al. The yeast homologue YTIS11, of the mammalian TIS11 gene family is a non-essential, glucose repressible gene. Oncogene 10:487-494 (1995)
		A22	Muller et al. Association of AUUUA-binding protein with A+U-rich mRNA during nucleo-cytoplasmic transport. J. Mol. Biol. 226:721-733 (1992)
		A23	Nie et al. ERF-2, the human homologue of the murine Tis11d early response gene. Gene 152:285-286 (1995)
		A24	Peng et al. Functional characterization of a non-AUUUA AU-rich element from the c-jun proto-oncogene mRNA: Evidence for a novel class of AU-rich elements. Mol. Cell. Biol. 16(4):1490-1499 (1996)
		A25	Rubin et al. A poly (A) binding protein-specific sequence motif: MRTENGKSKGFGFVC binding to mRNA poly (A) and polynucleotides and its role on mRNA translation. Biochem. Mol. Biol. Int. 33:575 (1994)
A26 Sachs. Messenger RNA degradation in eukaryotes. Cell 74:413 (1993)			Sachs. Messenger RNA degradation in eukaryotes. Cell 74:413 (1993)
			Shaw et al. A conserved AU sequence from the 3' untranslated region of GM-CSF mRNA mediates selective mRNA degradation. Cell 46:659-667 (1986)
		A28	Stevens et al. Blastomeres and cells with mesendodermal fates of carp embryos express cth1, a member of the TIS11 family of primary response genes. Int. J. Dev. Biol. 42:181-188 (1998)
		A29	Stoecklin et al. Functional hierarchy of AUUUA motifs in mediating rapid interleukin-3 mRNA decay. J. Biol. Chem. 269(18):28591-28597 (1994)
		A30	Taylor et al. The human TTP protein: sequence, alignment with related proteins, and chromosomal localization of the mouse and human genes. Nucl. Acids Res. 19(12):3454 (1991)
		A31	Thompson et al. Cloning and characterization of two yeast genes encoding members of the CCCH class of zinc finger proteins: zinc finger-mediated impairment of cell growth. Gene 174(2):225-233 (1996)
		A32	Varnum et al. The TIS11 primary response gene is a member of a gene family that encodes with a highly conserved sequence containing an unusual Cys-His repeat. <i>Mol. Cell. Biol.</i> 11:1754-1758 (1991)
		A33	Wang et al. Posttranscriptional regulation of protein expression in human epithelial carcinoma cells by adenine-uridine-ric elements in the 3'-untranslated region of tumor necrosis factor-alpha messenger RNA. Cancer Res. 57:5426-5433 (1997)
30	f	A34	Xu et al, Modulation of the fate of cytoplasmic mRNA by AU-rich elements: key sequence features controlling mRNA deadenylation and decay. <i>Mol. Cell. Biol.</i> 17(8):4611-4621 (1997)
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